U3D5 WS Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Per\_\_\_\_\_

A) Give the parent function.

B) Draw the general shape of the parent function.

C) Describe and write the transformations.

D) Describe how to graph.

E) Graph.

1. 2.

parent function \_\_\_\_\_\_\_\_\_\_

Up \_\_\_\_\_\_\_ Down \_\_\_\_\_\_\_

Left \_\_\_\_\_\_ Right \_\_\_\_\_\_\_\_

Reflection \_\_\_\_\_\_\_\_\_

Vertical shrink \_\_\_\_\_\_\_\_

Vertical stretch \_\_\_\_\_\_\_

Horizontal shrink \_\_\_\_\_\_\_

Horizontal stretch \_\_\_\_\_\_\_

parent function \_\_\_\_\_\_\_\_\_\_

Up \_\_\_\_\_\_\_ Down \_\_\_\_\_\_\_

Left \_\_\_\_\_\_ Right \_\_\_\_\_\_\_\_

Reflection \_\_\_\_\_\_\_\_\_

Vertical shrink \_\_\_\_\_\_\_\_

Vertical stretch \_\_\_\_\_\_\_

Horizontal shrink \_\_\_\_\_\_\_

Horizontal stretch \_\_\_\_\_\_\_



3. 4.

parent function \_\_\_\_\_\_\_\_\_\_

Up \_\_\_\_\_\_\_ Down \_\_\_\_\_\_\_

Left \_\_\_\_\_\_ Right \_\_\_\_\_\_\_\_

Reflection \_\_\_\_\_\_\_\_\_

Vertical shrink \_\_\_\_\_\_\_\_

Vertical stretch \_\_\_\_\_\_\_

Horizontal shrink \_\_\_\_\_\_\_

Horizontal stretch \_\_\_\_\_\_\_

parent function \_\_\_\_\_\_\_\_\_\_

Up \_\_\_\_\_\_\_ Down \_\_\_\_\_\_\_

Left \_\_\_\_\_\_ Right \_\_\_\_\_\_\_\_

Reflection \_\_\_\_\_\_\_\_\_

Vertical shrink \_\_\_\_\_\_\_\_

Vertical stretch \_\_\_\_\_\_\_

Horizontal shrink \_\_\_\_\_\_\_

Horizontal stretch \_\_\_\_\_\_\_



5. 6.

parent function \_\_\_\_\_\_\_\_\_\_

Up \_\_\_\_\_\_\_ Down \_\_\_\_\_\_\_

Left \_\_\_\_\_\_ Right \_\_\_\_\_\_\_\_

Reflection \_\_\_\_\_\_\_\_\_

Vertical shrink \_\_\_\_\_\_\_\_

Vertical stretch \_\_\_\_\_\_\_

Horizontal shrink \_\_\_\_\_\_\_

Horizontal stretch \_\_\_\_\_\_\_

parent function \_\_\_\_\_\_\_\_\_\_

Up \_\_\_\_\_\_\_ Down \_\_\_\_\_\_\_

Left \_\_\_\_\_\_ Right \_\_\_\_\_\_\_\_

Reflection \_\_\_\_\_\_\_\_\_

Vertical shrink \_\_\_\_\_\_\_\_

Vertical stretch \_\_\_\_\_\_\_

Horizontal shrink \_\_\_\_\_\_\_

Horizontal stretch \_\_\_\_\_\_\_

7. 8.

parent function \_\_\_\_\_\_\_\_\_\_

Up \_\_\_\_\_\_\_ Down \_\_\_\_\_\_\_

Left \_\_\_\_\_\_ Right \_\_\_\_\_\_\_\_

Reflection \_\_\_\_\_\_\_\_\_

Vertical shrink \_\_\_\_\_\_\_\_

Vertical stretch \_\_\_\_\_\_\_

Horizontal shrink \_\_\_\_\_\_\_

Horizontal stretch \_\_\_\_\_\_\_

parent function \_\_\_\_\_\_\_\_\_\_

Up \_\_\_\_\_\_\_ Down \_\_\_\_\_\_\_

Left \_\_\_\_\_\_ Right \_\_\_\_\_\_\_\_

Reflection \_\_\_\_\_\_\_\_\_

Vertical shrink \_\_\_\_\_\_\_\_

Vertical stretch \_\_\_\_\_\_\_

Horizontal shrink \_\_\_\_\_\_\_

Horizontal stretch \_\_\_\_\_\_\_

**Graph the piecewise function.**

9. 10.

11. 12.